

MEMORANDUM



Date: June 26, 2007

To: Honorable Chairman Bruno A. Barreiro
and Members, Board of County Commissioners

Agenda Item No.
8 (R) 3 (A)

From: George M. Burges
County Manager

A handwritten signature in black ink, appearing to read "G. Burges", written over the printed name of George M. Burges.

Subject: Request to Advertise for South District Wastewater Treatment Plant, HLD Upgrade to 285 MGD, Oxygenation Train No. 7 - Project No: N/A; Contract No: S-816

Recommendation

This Request to Advertise for Construction Contract No. S-816 has been prepared by the Miami-Dade Water and Sewer Department (MDWASD) and is recommended for approval pursuant to Sections 2-8.1 of the Code of Miami-Dade County. This project is one in a series of projects under the High Level Disinfection (HLD) Program to comply with Consent Order No. 03-1376 negotiated by Miami-Dade County and the Florida Department of Environmental Protection (FDEP) and to meet regulatory requirements resulting from a rule change implemented by the US Environmental Protection Agency (USEPA) to meet effluent quality standards for deep well disposal. Upon the completion of the entire project, the South District Wastewater Treatment Plant (SDWWTP) will be rated at 285 million gallons per day (MGD), a chart is attached showing the different upgrades that make-up the HLD Facility.

Scope

PROJECT NAME: South District Wastewater Treatment Plant, HLD Upgrade to 285 MGD, Oxygenation Train No. 7

PROJECT NO: N/A

CONTRACT NO: S-816

PROJECT DESCRIPTION: The project consists of constructing an enclosed concrete structure of approximately 2,200 square feet in an area 14 feet high for the Oxygenation Train No. 7, and an adjoining concrete channel and flow controls with an approximate area of 1,700 square feet at the SDWWTP.

The project also includes, but is not limited to the following: furnishing and installing all piping, fittings, valves, and accessories; sluice and slide gates for the channel; two blowers with intake and discharge silencers to reduce noise, piping, valves, and accessories for a diffuser system; connect blower with piping, fittings, valves, and associated accessories; and twelve aerators. Also, as part of the work is making connections to existing yard piping; site lighting; electrical work; concrete stairs and railing; cleaning and testing piping and equipment; coating of exterior and interior of structure; landscaping; restoration work of site, except paving (which will be done under a separate contract); and all other appurtenant and miscellaneous items and work for a complete, functional and satisfactory project.

It is MDWASD's intent to obtain a complete functional, and satisfactory installation under this project, and any items of labor, equipment or materials which may be reasonably assumed as necessary to accomplish this end shall be supplied whether or not they are specifically shown on the plans or stated in the specifications. The contractor shall provide all sheeting, shoring, bracing and all other labor, material or equipment required to preclude damage to, or loss of functionality of, any existing facility or system.

PROJECT LOCATION: 23300 SW 88 Avenue, Miami-Dade County, Florida

PRIMARY COMMISSION DISTRICT: District 8 Katy Sorenson

APPROVAL PATH: Board of County Commissioners

USING DEPARTMENT: Miami-Dade Water and Sewer Department

MANAGING DEPARTMENT: Miami-Dade Water and Sewer Department

Fiscal Impact / Funding Source

FUNDING SOURCE:	<u>SOURCE</u>	<u>AMOUNT</u>
	WASD Revenue Bonds Sold and Wastewater Connection Charges	<u>\$11,700,000.00</u>

PTP FUNDING: No

GOB FUNDING: No

CAPITAL BUDGET PROJECT:	<u>BUDGET PROJECT / DESCRIPTION</u>	<u>RTA ESTIMATE</u>
	96510240-SOUTH DISTRICT WASTEWATER TREATMENT PLANT - HIGH LEVEL DISINFECTION, Page 310, Volume 3, Funding Year 2006-2007	<u>\$11,700,000.00</u>

PROJECT TECHNICAL CERTIFICATION REQUIREMENTS: One of the following licenses is required: General Engineering, General Contractor, and/or other categories as applicable by Chapter 489 of the Florida Statutes or Chapter 10 of Miami-Dade County Code.

ESTIMATED CONTRACT PERIOD: 730 Consecutive Calendar Days

ESTIMATED CONTINGENCY PERIOD: 73

IG FEE INCLUDED IN BASE CONTRACT: Yes

ART IN PUBLIC PLACES: No

BASE ESTIMATE: \$10,390,000.00

CONTINGENCY ALLOWANCE (SECTION 2-8.1 MIAMI DADE COUNTY CODE):	TYPE	PERCENT	AMOUNT	COMMENT
	Infrastructure	10%	\$1,039,000.00	
PERMIT FEES :	\$271,000.00	2.60%		
TOTAL DEDICATED ALLOWANCE:	\$271,000.00			
COST ESTIMATE:	\$11,700,000.00			

Track Record / Monitor

EXPLANATION: Upgrade the South District Wastewater Treatment Plant to 285 MGD.

MINIMUM QUALIFICATIONS EXCEED LEGAL REQUIREMENTS: No

REVIEW COMMITTEE: **MEETING DATE:** 4/11/2007 **SIGNOFF DATE:**

RESPONSIBLE WAGES: Yes

REVIEW COMMITTEE ASSIGNED CONTRACT MEASURES:	MEASURE	GOAL	COMMENT
	CSBE	12.00%	
	CWF	0.00%	Not Applicable

MANDATORY CLEARING HOUSE: Yes

CONTRACT MANAGER NAME/PHONE/EMAIL:	John W. Chorlog, Jr.	(786) 552-8102	jwcho01@miamidade.gov
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PROJECT MANAGER NAME/PHONE/EMAIL:	Alma M. Santiago, P.E.	(786)552-8243	AS1@miamidade.gov
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Background

BACKGROUND: The project consists of constructing an enclosed concrete structure of approximately 2,200 square feet for Oxygenation Train No. 7, and an adjoining concrete channel and flow controls with an approximate area of 1,700 square feet at the SDWWTP. This is one in a series of projects under the HLD Program to comply with Consent Order No. 03-1376 negotiated by Miami-Dade County and FDEP and to meet regulatory requirements resulting from a rule change implemented by the USEPA to meet effluent quality standards for deep well disposal. Upon the completion of the entire project, the SDWWTP will be rated as a 285 MGD plant.

BUDGET APPROVAL
FUNDS AVAILABLE:


OSBM DIRECTOR

5-29-07 ACCEPTED
DATE



APPROVED AS TO
LEGAL SUFFICIENCY:


COUNTY ATTORNEY

5/23/07 ACCEPTED
DATE


ASSISTANT COUNTY
MANAGER

5/30/07 ACCEPTED
DATE

CLERK DATE

DATE

**SOUTH DISTRICT WASTEWATER TREATMENT PLANT, HLD UPGRADE TO
285 MGD, OXYGENATION TRAIN NO. 7**

CONTRACT NO: S-816

**BUDGET PROJECT AND
DESCRIPTION:**

96510240-SOUTH DISTRICT WASTEWATER
TREATMENT PLANT - HIGH LEVEL DISINFECTION

FUNDING SOURCE:

WASD REVENUE BONDS SOLD AND WASTEWATER
CONNECTION CHARGES

INDEX CODES:

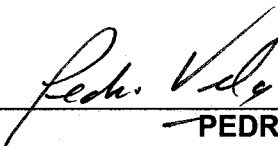
S047650

**ASSISTANT DIRECTOR,
ENGINEERING AND CAPITAL
IMPROVEMENTS:**

 5/14/07

EDUARDO A. VEGA, PE DATE

**BUDGET AND CAPITAL
FUNDING COORDINATION:**

 5/14/07

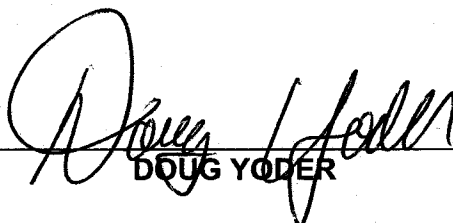
PEDRO VELAR DATE

**ASSISTANT DIRECTOR,
FINANCE AND INFORMATION
TECHNOLOGY:**

 5/14/07

DIANE CAMACHO DATE

**DEPUTY DIRECTOR,
REGULATORY COMPLIANCE AND
CAPITAL IMPROVEMENTS:**

 5/14/07

DOUG YODER DATE

STRATEGIC AREA: Neighborhood and Unincorporated Area Municipal Services
DEPARTMENT: Water and Sewer

***** FUNDED PROJECTS *****
(dollars in thousands)

SOUTH DISTRICT WASTEWATER TREATMENT PLANT - HIGH LEVEL DISINFECTION

PROJECT # 96510244

DESCRIPTION: Construct treatment facilities for high level disinfection to meet regulatory requirements

LOCATION: 8950 SW 232 St

Unincorporated Miami-Dade County

DISTRICT LOCATED: 8

ESTIMATED ANNUAL OPERATING IMPACT: Minimal

DISTRICT(s) SERVED: Systemwide

REVENUE SCHEDULE:	PRIOR	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	FUTURE	TOTAL
Wastewater Connection Charges	28,220	3,838	19,883	16,902	11,361	2,570	0	0	82,774
State Revolving Loan Wastewater Program	0	0	0	55,000	45,000	0	0	0	100,000
WASD Revenue Bonds Sold	94,462	0	0	0	0	0	0	0	94,462
Future WASD Revenue Bonds	0	0	0	223,702	0	0	0	4,600	228,302

TOTAL REVENUE:	122,682	3,838	19,883	295,604	56,361	2,570	0	4,600	505,538
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EXPENDITURE SCHEDULE:	PRIOR	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	FUTURE	TOTAL
Planning and Design	1,511	1,685	9,868	18,005	13,553	959	0	419	46,000
Construction	15,091	16,830	98,587	179,870	135,399	9,580	0	4,181	459,538

TOTAL EXPENDITURES:	16,602	18,515	108,455	197,875	148,952	10,539	0	4,600	505,538
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SOUTH DISTRICT WASTEWATER TREATMENT PLANT EXPANSION - PHASE III

PROJECT # 9655481

DESCRIPTION: Expand the South District Wastewater Plant and injection wells; and install emergency generators

LOCATION: 8950 SW 232 St

Unincorporated Miami-Dade County

DISTRICT LOCATED: 8

ESTIMATED ANNUAL OPERATING IMPACT: Minimal

DISTRICT(s) SERVED: Systemwide

REVENUE SCHEDULE:	PRIOR	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	FUTURE	TOTAL
Wastewater Connection Charges	7,000	0	0	1,000	1,000	3,000	2,000	0	14,000
Future WASD Revenue Bonds	0	0	0	0	0	0	60,000	21,000	81,000

TOTAL REVENUE:	7,000	0	0	1,000	1,000	3,000	62,000	21,000	95,000
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EXPENDITURE SCHEDULE:	PRIOR	2006-07	2007-08	2008-09	2009-10	2010-11	2011-12	FUTURE	TOTAL
Planning and Design	0	0	0	136	318	637	2,912	4,641	8,644
Construction	0	0	0	1,364	3,182	6,363	29,088	46,359	86,356

TOTAL EXPENDITURES:	0	0	0	1,500	3,500	7,000	32,000	51,000	95,000
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MIAMI-Dade WATER AND SEWER DEPARTMENT
 Projection by Project Sub-project by Year - Wastewater
 As of: 9/30/2005

Proj	Sub-Proj	Sub-Proj Description	Current Bond/Fund Allocation	Expenditures Remaining As of 9/30/2005	Bond/Fund Allocation	PROJECTIONS										
						2005-2006	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	Total
1036	101665	SDWWTP - 1 MGD COASTAL WETLANDS REHYDRATION	6,600,000	0	6,600,000	100,000	1,000,000	5,500,000	0	0	0	0	0	0	0	6,600,000
	101671	20,000 GPD WELLFIELD RECHARGE	1,025,000	0	1,025,000	0	90,000	935,000	0	0	0	0	0	0	0	1,025,000
1037		TOTAL - 1036	23,013,980	13,782	23,000,198	277,291	6,281,907	16,435,000	0	0	0	0	0	0	0	23,000,198
	101527	SDWWTP - EFFLUENT DISPOSAL WELLS - ONSITE	4,988,353	38,353	4,950,000	50,000	100,000	200,000	0	0	0	0	0	0	4,600,000	4,950,000
	101618	SDWWTP - DEEP BED SAND FILTERS	125,386,725	0	125,386,725	0	2,205,662	35,431,865	50,111,670	35,431,865	2,205,663	0	0	0	0	125,386,725
	101619	SDWWTP - FINAL CLARIFIERS AND INTERIM IMPROVEMENTS	83,905,674	0	83,905,674	0	0	15,802,856	37,315,399	28,940,681	1,846,738	0	0	0	0	83,905,674
	101620	SDWWTP - PROCESS CONTROLS AND INSTRUMENTATION	1,522,750	0	1,522,750	0	0	286,796	677,213	525,226	33,515	0	0	0	0	1,522,750
	101621	SDWWTP - DISINFECTION FACILITIES/CHLORINE TANKS	114,266,550	0	114,266,550	0	0	21,321,044	50,817,804	39,412,731	2,514,971	0	0	0	0	114,266,550
	101622	SDWWTP - YARD PIPING	12,066,162	0	12,066,162	0	0	2,275,550	5,366,188	4,161,851	265,573	0	0	0	0	12,066,162
	101623	SDWWTP - ELECTRICAL SERVICE/GENERATORS	34,164,129	0	34,164,129	0	0	6,434,497	15,193,825	11,783,865	751,942	0	0	0	0	34,164,129
	101624	SDWWTP - LOW LIFT TRANSFER PUMP STATION	26,300,613	0	26,300,613	0	0	4,953,477	11,596,681	9,071,587	578,868	0	0	0	0	26,300,613
	101625	SDWWTP - FINAL SITE PAVING, GRADING AND DRAINAGE	2,936,904	0	2,936,904	0	0	553,139	1,406,130	1,012,995	64,640	0	0	0	0	2,936,904
101627	SDWWTP - SLUDGE HANDLING IMPROVEMENTS	10,475,134	0	10,475,134	0	0	1,972,895	4,658,610	3,613,075	230,554	0	0	0	0	10,475,134	
101636	SDWWTP - DESIGN AND ENGINEERING SERVICES	59,803,646	6,029,329	53,774,317	10,484,063	16,209,077	13,428,545	7,514,104	4,746,350	1,392,178	0	0	0	0	53,774,317	
101669	OXYGENATION PROCESS TRAIN 7	11,231,183	0	11,231,183	0	0	2,115,289	4,994,848	3,873,851	247,195	0	0	0	0	11,231,183	
101670	EFFLUENT PUMP SYSTEM	18,490,186	0	18,490,186	0	0	3,482,455	8,223,147	6,377,621	406,963	0	0	0	0	18,490,186	
		TOTAL - 1037	505,538,009	6,067,682	499,470,327	10,534,063	18,518,739	108,455,408	197,875,619	148,951,698	10,538,800	0	0	0	4,600,000	499,470,327
		TOTAL - Wastewater	2,159,736,208	122,564,633	2,037,171,575	76,529,885	122,103,544	235,834,145	296,366,522	292,853,251	118,800,613	196,488,908	204,168,757	178,850,809	315,175,142	2,037,171,576



Dept. of Business Development
Project Worksheet

Project/Contract Title: SOUTH DISTRICT WASTER WATER TREATMENT PLANT, OXYGENATION TRAIN NO. 7 (SIC 15) RC Date: 04/11/20
Project/Contract No: S-816 3
Department: WATER & SEWER DEPARTMENT Funding Source: ER-47650 Item No:
Estimated Cost of Project/Bid: \$11,700,000.00 Resubmittal Date(s):

Description of Project/Bid: THE PROJECT CONSISTS OF CONSTRUCTING AND ENCLOSED CONCRETE STRUCTURE OF APPROXIMATELY 2,200 SQUARE FEET IN AREA BY 14 FEET HIGH FOR THE OXYGENATION TRAIN NO. 7, AND AN ADJOINING CONCRETE FLUME (CHANNEL) AND WEIR STRUCTURE WITH AN APPROXIMATE AREA OF 1,700 SQUARE FEET AT THE SOUTH DISTRICT WASTE WATER TREATMENT PLANT, LOCATED AT 23300 SW 88TH AVENUE, IN MIAMI-DADE COUNTY, FLORIDA. THIS PROJECT IS ONE IN A SERIES OF PROJECTS UNDER THE HIGH LEVEL DISINFECTION (HLD) PROGRAM TO COMPLY WITH A CONSENT DECREE IMPOSED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA).


Contract Measures Recommendation		
Measure	Program	Goal Percent
Goal	CSBE	12.40%

Reasons for Recommendation	
An analysis of the factors contained in Section VI C of A.O. 3-22 indicate that a goal is appropriate in the trades of excavation, demolition, clearing and grubbing and drainage (all other heavy construction), plumbing, painting, electrical, compact fill & paving, and guardrail (highway and street construction).	
CWP Not Applicable: Not in DTA	

Analysis for Recommendation of a Goal				
Subtrade	Cat.	Estimated Value	% of Items to Base Bid	Availability
Excavation Contractors	CSBE	\$198,900.00	1.70%	23
Wrecking and Demolition Contractors	CSBE	\$4,914.00	0.04%	11
All Other Heavy Construction	CSBE	\$24,570.00	0.21%	15
Plumbing, Heating, and Air-Conditioning Contractors	CSBE	\$299,520.00	2.56%	24
Painting and Wall Covering Contractors	CSBE	\$59,670.00	0.51%	35
Electrical Contractors	CSBE	\$398,970.00	3.41%	42
Highway and Street Construction	CSBE	\$464,490.00	3.97%	23
Total		\$1,451,034.00	12.40%	

Living Wages: YES ☐ NO ☒ Highway: YES ☐ NO ☒ Heavy Construction: YES ☐ NO ☒
Responsible Wages: YES ☒ NO ☐ Building: YES ☒ NO ☐

Ordinance 90-143 is applicable to all construction projects over \$100,000 that do not utilize Federal Funds

REVIEW COMMITTEE RECOMMENDATION			
Tier 1 Set Aside			
Set Aside	Level 1	Level 2	Level 3
Trade Set Aside (MCC)	Goal 12% CSBE	Bid Preference	
No Measure	Deferred	Selection Factor	
	Date 4/11/07	County Manager	Date

SDWWTP High Level Disinfection (HLD) 285 mgd Bid Packages

MIAMI-DADE

